İlker Özgen

Software Engineer | Software Engineer in Test at ASELSAN

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EDUCATION

BILKENT UNIVERSITY   **Ankara, Turkiye**
Bachelor of Science, Computer Science   *2019-2024*

PROFESSIONAL EXPERIENCE

ASELSAN   **Ankara, Turkiye**
Software Engineer in Test   *November 2024–present*
- Developing a web application to streamline test data entry and generate statistical insights and reports.
- Built a web application to perform multi-user testing that sends requests with a customizable number of users.
- Implemented a log watcher to monitor service logs in a Kubernetes environment during automated test executions.
- Developed a simulator to facilitate integration testing between different software applications.
- Conducting software testing activities for web applications.
- Designed and automated 1200+ test cases, significantly improving testing efficiency.
- Executed over 2500 manual tests to ensure software reliability.
- Identified and reported 200+ critical defects, enhancing system stability.
- Led 16 full-cycle test executions, integrating both automated and manual testing.

HEY TECHNOLOGY   **ODTÜ Teknokent, Ankara, Turkiye**
Software Engineer Intern   *June 2023–July 2023*
- Collaborated with data science and machine learning teams on 2 high-impact projects.
- Preprocessed 2 complex datasets, reducing feature engineering time by 30%.
- Constructed predictive models for U.S. cotton export rates, achieving 92% accuracy.
- Implemented predictive maintenance solutions, reducing factory machinery downtime by 25%.

KONNEKA   **Bilkent CYBERPARK, Ankara, Turkiye**
Software Engineer Intern   *August 2022–September 2022*
- Assisted in software development, testing, and IT support across 3 projects.
- Managed ESXi servers and virtual machines, ensuring 99% uptime.
- Diagnosed and resolved 3 bugs during SandBox testing, improving reliability by 9%.

AREAS OF EXPERTISE

Programming Languages & Technologies:
- Python
- Java
- C / C# / C++
- JavaScript / TypeScript
- SQL / PostgreSQL
- HTML & CSS

Frameworks & Libraries:
- React JS
- Node.js
- FastAPI
- jQuery / Bootstrap
- Selenium / TestNG
- Spring /Spring Boot

Tools & Methodologies:
- Docker
- Kubernetes
- AWS
- Git / GitLab
- Azure DevOps
- Jira / Confluence
- MobaXterm
- Postman
- Wireshark
- Agile
- Scrum
- Kanban

LANGUAGES

- Turkish, *Native*
- English, *Highly Proficient*
- German, *Beginner*

SOFT SKILLS

- Communication
- Teamwork
- Leadership
- Systematic Approach
- Creativity
- Analytical Thinking

ACHIEVEMENTS & AWARDS

- Awarded an investment offer under the TÜBİTAK BiGG program, 2024
- First place in "İlk Yatırımım" Entrepreneurship Competition, 2024
- High Honour Student, Bilkent University, 2020

PROJECTS

AnnoHub   *September 2023-December 2024*
- Created a data labeling platform, recognized with an entrepreneurship award, and attracted investor interest.
- Awarded an investment offer under the TÜBİTAK BiGG program.
- Tech Stack: Python, FastAPI, React JS, PostgreSQL, Jira

Browsify   *November 2023-December 2023*
- Engineered a web browser with advanced bookmark management, expecting 15%-25% increase in user engagement due to its customizable UI.
- Tech Stack: Python, PyQt5

Image Inpainting with CNN   *November 2023-December 2023*
- Designed a convolutional neural network for image inpainting using the CIFAR-100 dataset.
- Tech Stack: Python, PyTorch, PIL, NumPy, Matplotlib

Digit Image Classifier   *October 2023-November 2023*
- Implemented PCA analysis and logistic regression to classify digit images, achieving 92.27% accuracy.
- Tech Stack: Python (No additional machine learning libraries are used, all implementations are self-contained.)

BBC News Classifier   *September 2023-September 2023*
- Trained and evaluated Naive Bayes models on BBC new articles, achieving 97.7% accuracy
- Tech Stack: Python (No additional machine learning libraries are used, all implementations are self-contained.)

ToEra   *September 2022-December 2022*
- Built a web application to streamline Erasmus applications at Bilkent University, reducing manual communication by 95%.
- Tech Stack: Node.js, React JS, AWS

CERTIFICATIONS

- [High Honour Certificate](#)
- [Certificate of Proficiency in Academic English](#)
- [Python Programming Bootcamp](#)
- [Intro to Machine Learning](#)
- [Python Course Certificate](#)
- [Python for Finance Course Certificate](#)
- [C++ Course Certificate](#)
- [WEB3 Zirvesi](#)
- [Java Developer Course Certificate](#)
- [HTML & CSS Course Certificate](#)
- [CSS & JavaScript Course Certificate](#)
- [Python (Basic) Certificate](#)
- [Problem Solving (Basic) Certificate](#)
- [Java (Basic) Certificate](#)
- [IELTS - Academic, Score: 7.5/9](#)
- [ISTQB Certified Tester - Foundation Level](#)